

Factsheet

Kardex Horizontal Carousel



Kardex Horizontal Carousel

The Kardex Horizontal Carousel is used for fast, reliable and cost-efficient storage and picking of goods. It features an oval-shaped track surrounded by carriers equipped with shelves and storage bins. A motor moves the carrier around the track horizontally, stopping at a pre-determined access point for storing and retrieving goods.

Whether in production or distribution, for applications requiring high throughput or for medium and slow-movers, Horizontal Carousel Modules (HCMs) flexibly adapt to all types of tasks to efficiently process picking orders. HCMs provide an efficient process flow, increased transparency and more flexibility, even during peak times.

To enhance picking performance, Kardex typically arranges HCMs in stations. The exact layout of the stations, including the shape and number of levels, is based on the specific operational demands and facility size. From simple 1-person stations to more complex multilevel stations allowing multiple material flow strategies, Kardex configures HCMs to meet its customers' needs.

 Learn more in our customer success stories

High
throughput

Small &
medium-sized
storage
goods

Flexible
workstations
& carriers



Application range

Order picking

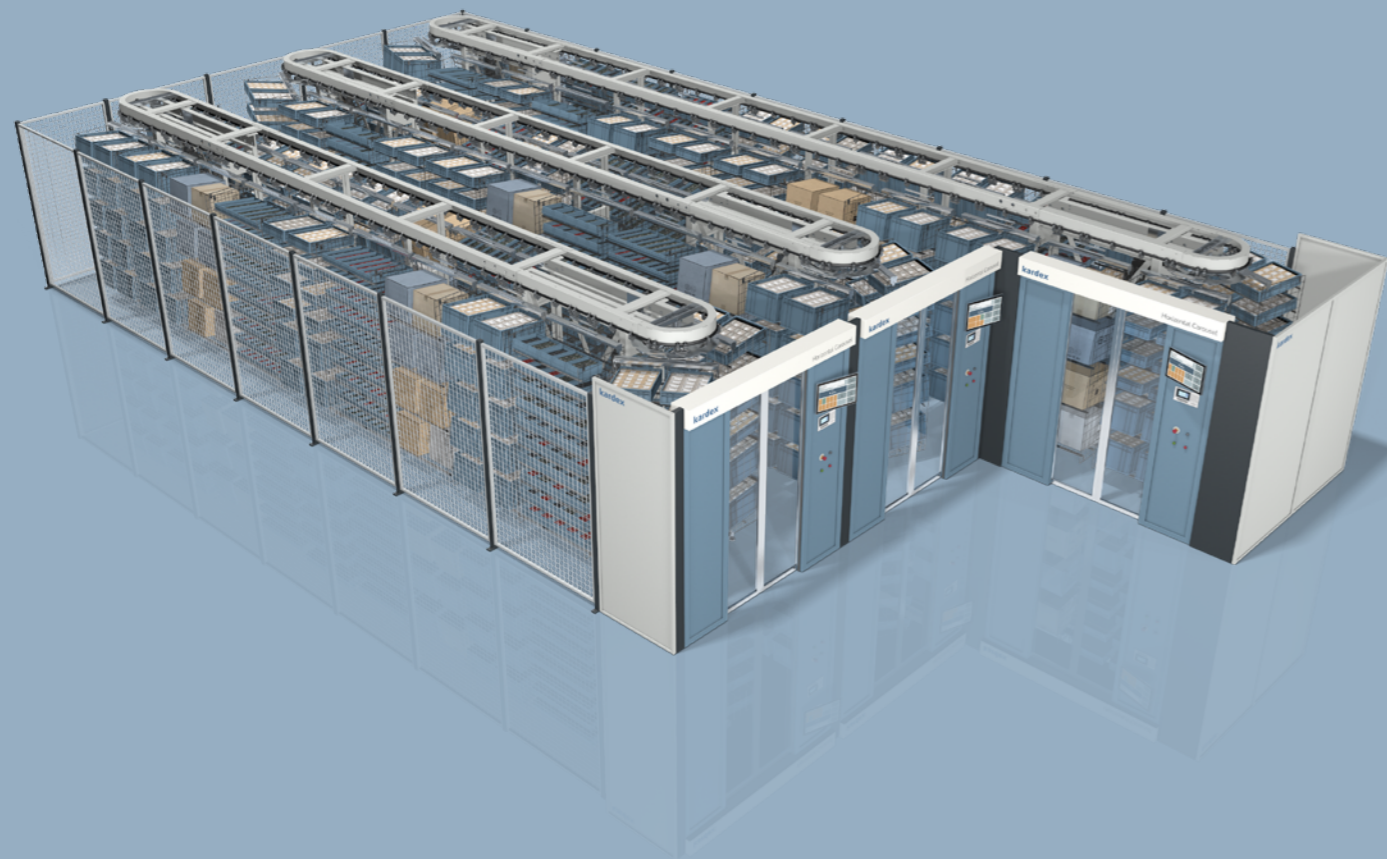
Increased throughput and immediate delivery challenge today's warehouses. Companies choose the Kardex Horizontal Carousel because they want a flexible order picking process that delivers goods quickly and accurately. For example, a simple push of a button splits a pod of six HCMs operated by one worker into three zones operated by three workers. During peak times, multiple workstations allow multiple workers to pick at the same time.

Fast parts delivery

Fast and reliable parts delivery is critical to avoid unnecessary waiting times or delays. The Kardex Horizontal Carousel retrieves the requested items in the shortest possible time without wasting handling and retrieval time. Each unit within a station works simultaneously to guarantee continuous access and minimal waiting.

Space-saving storage for halls with low ceilings

Storing items in a small space (50 – 100 sq ft) reduces extensive travel and picking times. The Kardex Horizontal Carousel is especially beneficial to use in smaller buildings with low ceilings because it optimizes the entire horizontal space of the warehouse.



Carousel length 5,900 – 46,700 mm
233 – 1,839 in

Number of carriers dependent
on carrier width (CW)

CW 622	16 – 120 carriers
CW 825	14 – 100 carriers
CW 960	12 – 90 carriers

Carrier width 622 mm, 825 mm, 960 mm
25 in, 33 in, 38 in

Carrier depth 460 mm, 560 mm, 610 mm
19 in, 23 in, 25 in

Carrier height 1,854 to 3,658 mm
73 to 145 in

Carrier payload 450 kg / 680 kg / 900 kg
992 lbs / 1,499 lbs / 1,984 lbs

Standard technical data, other sizes possible on request

 [Learn more](#) about HCMs

Main components



Automatic access opening

- Access opening on the front or side and equipped with safety doors that open and close automatically
- User controls to display and confirm process steps



Highly flexible carrier concept

- Carriers design with 1.5 inch (38 mm) spacing
- Shelf spacing combined with standard bins increases warehouse capacity



Robust shelves

- Shelves rotate 180°
- Options to mount shelves forwards / backwards tilted or horizontally



Safety fence

- Prevents unauthorized access
- Service door allows maintenance work

Complementary technology

Kardex can install the Kardex Horizontal Carousel either as a stand-alone solution or integrated into an overall logistics concept. By adding further enhancements or combining it with other technologies, users benefit from enhanced performance including improved throughput, accuracy and material flow.



Workstation equipment

- Second operator panel, position indicator, pick & put lights, confirmation button, protection light barrier, lifting platforms



Carrier with closed wall

- Carriers with closed walls (rear and/or side walls)



Kardex VCM Box

- Organized storage & full use of space
- Up to 20% higher storage volume than other products



Life Cycle Service

- Holistic, flexible, and modular service portfolio
- Remote support and optional services like smart monitoring, assistance and conferencing or analytics

Further options and storage environments with air conditioning, fire protection or esd versions are available.



Kardex Horizontal Carousels with conveyor system



Order picking with Kardex Horizontal Carousels

Smart Intralogistics Solutions

Kardex offers an A-Z product portfolio targeting the niche needs of various industries. Discover innovative offers ranging from everyday handling of bins and pallets or storage in controlled environments to fully-integrated automated storage solutions and material handling systems. From day one, the Life Cycle Service team works hand-in-hand to support your project implementation, maintenance and future plans.

